

## **Operation Description of transmitter for SpongeBob RC Burger Mobile Vehicle**

The SpongeBob RC Burger Mobile Vehicle is a transmitter operating at 27.145 MHz which is controlled by a crystal. It is powered by 9V battery. There are two button keys in the front of the transmitter. When the forward, left turn, right turn or spin button pressed once, it will transmit a radio frequency for receiver going forward, turn left or right and spin motion. When the sound button pressed once, it will transmit a radio frequency for receiver to produce sound.

Refer to the circuit design, the circuit description is listed as follows:

- U1 and associated circuit act as encoder
- X1, U1 and associated circuit act as oscillator
- D6, C14, R10 and associated circuit act as voltage control
- U1 and associated circuit act as amplifier